\_\_\_\_\_\_

Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Wed Jun 06 09:31:44 EDT 2007

\_\_\_\_\_

## Validated By CRFValidator v 1.0.2

Application No: 10587370 Version No: 1.0

Input Set:

Output Set:

**Started:** 2007-06-05 17:16:20.859

**Finished:** 2007-06-05 17:16:24.597

**Elapsed:** 0 hr(s) 0 min(s) 3 sec(s) 738 ms

Total Warnings: 28

Total Errors: 2

No. of SeqIDs Defined: 33

Actual SeqID Count: 33

Error code		Error Description									
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(1)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(2)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(3)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(4)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(5)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(6)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(7)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(8)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(9)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(10)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(11)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(12)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(13)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(14)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(15)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(16)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(17)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(18)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(19)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(21)

#### Input Set:

### Output Set:

**Started:** 2007-06-05 17:16:20.859

Finished: 2007-06-05 17:16:24.597

**Elapsed:** 0 hr(s) 0 min(s) 3 sec(s) 738 ms

Total Warnings: 28

Total Errors: 2

No. of SeqIDs Defined: 33

Actual SeqID Count: 33

# Error code Error Description

This error has occured more than 20 times, will not be displayed

 ${\tt E}$  355 Empty lines found between the amino acid numbering and the

E 321 No. of Bases conflict, this line has no nucleotides SEQID (33)

#### SEQUENCE LISTING

```
<110> Genentech, Inc.
<120> BCMA POLYPEPTIDES AND USES THEREOF
<130> 11669.0237USWO
<140> 10587370
<141> 2007-06-05
<150> 10/587,370
<151>
      2006-07-26
<150> PCT/US2004/025247
<151> 2004-08-04
<150> US 60/540,271
<151> 2004-01-29
<160> 33
<170> PatentIn version 3.3
<210> 1
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<220>
<221> MISC_FEATURE
<222> (2)..(5)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is any amino acid residue except Ala and cysteine
<220>
<221> MISC_FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid except cysteine
```

```
<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (18)..(20)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (22)..(29)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (31)..(33)
<223> Xaa is any amino acid except cysteine
<400> 1
Cys Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Cys Lys Xaa
Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
           20
                              25
Xaa Cys
<210> 2
<211> 40
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<220>
<221> MISC_FEATURE
<222> (2)..(5)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (9)..(9)
```

```
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is any amino acid residue except Ala and cysteine
<220>
<221> MISC_FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (18)..(20)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (22)..(29)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (31)..(33)
<223> Xaa is any amino acid except cysteine
<400> 2
Cys Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Cys Lys Xaa
              5
Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
           20
                               25
Xaa Cys Asn Ser Val Lys Gly Thr
                           40
       35
<210> 3
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<220>
<221> MISC_FEATURE
```

```
<222> (2)..(5)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is Leu, Val or Ile
<220>
<221> MISC_FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (18)..(20)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (22)..(29)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (31)..(33)
<223> Xaa is any amino acid except cysteine
<400> 3
Cys Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Cys Lys Xaa
               5
                                   10
                                                       15
Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
```

25

Xaa Cys

20

```
<210> 4
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<220>
<221> MISC_FEATURE
<222> (2)..(5)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is any amino acid residue except Ala and cysteine
<220>
<221> MISC_FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC FEATURE
<222> (18)..(18)
<223> Xaa is selected from the group consisting of Gln, Asp and Ala
<220>
<221> MISC_FEATURE
<222> (19)..(20)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (22)..(29)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (31)..(33)
```

```
<223> Xaa is any amino acid except cysteine
<400> 4
Cys Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Cys Lys Xaa
                                   10
Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
           20
                              25
Xaa Cys
<210> 5
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<220>
<221> MISC_FEATURE
<222> (2)..(5)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is any amino acid residue except Ala and cysteine
<220>
<221> MISC_FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is any amino acid except cysteine
<220>
```

<221> MISC\_FEATURE

```
<222> (18)..(18)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (22)..(29)
<223> Xaa is any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222> (31)..(33)
<223> Xaa is any amino acid except cysteine
<400> 5
Cys Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Cys Lys Xaa
               5
                                  10
Cys Xaa Asp Tyr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
           20
                             25
                                                  30
Xaa Cys
<210> 6
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<400> 6
Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Lys Pro
              5
                                 10
                                                     15
Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg
           20
                             25
Tyr Cys
<210> 7
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
```

<400> 7

Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Lys Pro 1 5 10 15

Cys Asp Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg 20 25 30

Tyr Cys

<210> 8

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 8

Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Lys Pro 1 5 10 15

Cys Asp Leu Tyr Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg
20 25 30

Tyr Cys

<210> 9

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 9

Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Val His Ala Cys Lys Pro  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg 20 25 30

Tyr Cys

```
<210> 10
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<220>
<221> MISC_FEATURE
<222> (2)..(5)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC FEATURE
<222> (6)..(6)
<223> Xaa is selected from the group consisting of Tyr, Ala, Asp, Ser
      and Phe
<220>
<221> MISC FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is any amino acid residue except Ala
<220>
<221> MISC_FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC FEATURE
<222>
      (15)..(15)
<223> Xaa is any amino acid residue except Ala or Lys
<220>
<221> MISC_FEATURE
<222> (16)..(16)
```

```
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (18)..(18)
<223> Xaa is selected from the group consisting of Gln, Asp and Ala
<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is selected from the group consisting of Tyr and Ala
<220>
<221> MISC_FEATURE
<222> (22)..(29)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (31)..(33)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<400> 10
Cys Xaa Xaa Xaa Xaa Xaa Asp Xaa Leu Xaa Xaa Cys Xaa Xaa
1
               5
                                   1.0
                                                       15
Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
           2.0
                               2.5
                                                   30
Xaa Cys
<210> 11
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
```

```
<220>
<221> MISC_FEATURE
<222> (2)..(5)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa is selected from the group consisting of Tyr, Ala, Asp, Ser
      and Phe
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is Leu, Val or Ile
<220>
<221> MISC FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> Xaa is any amino acid residue except Ala or Lys
<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSONEYFDSLLHACIPCOLRCSSNTPPLTCORYC
<220>
<221> MISC_FEATURE
<222> (18)..(18)
<223> Xaa is selected from the group consisting of Gln, Asp and Ala
```

```
<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222>
      (20)..(20)
<223> Xaa is selected from the group consisting of Tyr and Ala
<220>
<221> MISC_FEATURE
<222> (22)..(29)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (31)..(33)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSONEYFDSLLHACIPCOLRCSSNTPPLTCORYC
<400> 11
Cys Xaa Xaa Xaa Xaa Xaa Asp Xaa Leu Xaa Xaa Cys Xaa Xaa
Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
           20
                               25
                                                   30
Xaa Cys
<210> 12
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<220>
<221> MISC_FEATURE
<222>
      (2)..(5)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
```

CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

```
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa is selected from the group consisting of Tyr, Ala, Asp, Ser
      and Phe
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is any amino acid residue except Ala
<220>
<221> MISC_FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> Xaa is Ile, Val or Ala
<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (18)..(18)
<223> Xaa is selected from the group consisting of Gln, Asp and Ala
<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
```

<221> MISC\_FEATURE

```
<222> (20)..(20)
<223> Xaa is selected from the group consisting of Tyr and Ala
<220>
<221> MISC_FEATURE
<222> (22)..(29)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<220>
<221> MISC_FEATURE
<222> (31)..(33)
<223> Xaa is any amino acid except cysteine; and provided that the
      synthetic sequence does not comprise the sequence
      CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC
<400> 12
Cys Xaa Xaa Xaa Xaa Xaa Asp Xaa Leu Xaa Xaa Cys Xaa Xaa
               5
                                   10
Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
           20
                               25
                                                   30
Xaa Cys
<210> 13
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<400> 13
Cys Ser Gln Asn Glu Ala Phe Asp Ser Leu Leu His Ala Cys Ile Pro
               5
                                   10
Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg
           20
                               25
                                                   30
Tyr Cys
<210> 14
<211> 34
<212> PRT
```

<213> Artificial Sequence

```
<220>
<223> Synthetic Sequence
<400> 14
Cys Ser Gln Asn Glu Ser Phe Asp Ser Leu Leu His Ala Cys Ile Pro
                    10
Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg
                 25
                                             30
          20
Tyr Cys
<210> 15
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Sequence
<400> 15
```

Cys Ser Gln Asn Glu Phe Phe Asp Ser Leu Leu His Ala Cys Ile Pro 1 5 10 15

Cys Gln Leu Arg